

Appl. No. 09/981,389
Response Dated July 17, 2006
Reply to Office Action of February 16, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A sound location detecting system, comprising:

a first microphone located at a first location to detect acoustic waves at the first location;

a second microphone located at a second location to detect acoustic waves at the second location;

at least one reflector having an acoustically reflective surface structured and arranged to reflect the acoustic waves;

an acoustic analysis device to detect and analyze the acoustic waves; and

a processing device to determine a spatial location of a source of the acoustic waves **and in response to the spatial location of the source to at least one of**

delay an output of the first or second microphone, or

selectively disable the first or second microphone.
2. (Original) The sound location detecting system according to claim 1, wherein the at least one acoustically reflective surface has an irregular shape.
3. (Original) The sound location detecting system according to claim 1, wherein the at least one acoustically reflective surface is shaped like a human pinnea.

Appl. No. 09/981,389
Response Dated July 17, 2006
Reply to Office Action of February 16, 2006

4. (Original) The sound location detecting system according to claim 1, wherein the at least one acoustically reflective surface has low acoustic absorption properties.

5. (Currently Amended) The sound location detecting system according to claim 1, wherein the processing device directs an observation device ~~in a direction of~~ to the spatial location of the source of the acoustic waves.

6. (Original) The sound location detecting system according to claim 1, further including a calibration device to create a set of phase signature tables associating phase angles, between when the acoustic waves reach the first microphone and when the acoustic waves reach the second microphone, with detected frequencies at a predetermined spatial location.

7. (Currently Amended) A method of determining a spatial location of a source of acoustic waves, comprising:

detecting, with using a first microphone ~~to detect~~ , acoustic waves at a first location;

detecting, with using a second microphone ~~to detect~~ , acoustic waves at a second location;

reflecting, with using at least one reflector having an acoustically reflective surface ~~structured and arranged to reflect~~ , the acoustic waves in a direction of the first location and the second location;

analyzing the acoustic waves; ~~and~~

determining a spatial location of a source of the acoustic waves, and in response to the spatial location of the source, at least one of

Appl. No. 09/981,389
Response Dated July 17, 2006
Reply to Office Action of February 16, 2006

delaying an output of the first or second microphone, or
selectively disabling the first or second microphone.

8. (Original) The method according to claim 7, wherein the at least one acoustically reflective surface has an irregular shape.

9. (Original) The method according to claim 7, wherein the at least one acoustically reflective surface has low acoustic absorption properties.

10. (Currently Amended) The method according to claim 7, ~~wherein the method~~ further ~~includes~~ **comprising** directing an observation device ~~in a direction of~~ **to** the determined spatial location of the source of the acoustic waves.

11. (Currently Amended) The method according to claim 7, further ~~including~~ **comprising** creating a set of phase signature tables associating phase angles, between when the acoustic waves reach the first location and when the acoustic waves reach the second location, with detected frequencies at a predetermined spatial location.

12. (Currently Amended) A sound location detecting device, comprising:
a computer-readable medium; and
a computer-readable program code, stored on the computer-readable medium, having instructions to

detect, with use a first microphone ~~to detect~~ , acoustic waves at a first location;

Appl. No. 09/981,389
Response Dated July 17, 2006
Reply to Office Action of February 16, 2006

detect, with use a second microphone ~~to detect~~, acoustic waves at a second location;
analyze the acoustic waves received from a reflector structured and arranged to reflect the acoustic waves in a direction of the first microphone and the second microphone; and
determine a spatial location of a source of the acoustic waves, and in response to the spatial location of the source, to at least one of
delay an output of the first or second microphone, or
selectively disable the first or second microphone.

13. (Original) The sound location detecting device according to claim 12, wherein at least one acoustically reflective surface is utilized to reflect the acoustic waves.

14. (Original) The sound location detecting device according to claim 13, wherein the at least one acoustically reflective surface has an irregular shape.

15. (Original) The sound location detecting device according to claim 13, wherein the at least one acoustically reflective surface has low acoustic absorption properties.

16. (Currently Amended) The sound location detecting device according to claim 12, wherein the computer-readable program code includes instructions to direct an observation device ~~in a~~ to the determined spatial location of the source of the acoustic waves.

17. (Canceled)

18. (Original) The sound location detecting device according to claim 12, wherein the computer-readable program code includes instructions to create a set of phase signature tables associating phase angles, between when the acoustic waves reach the first location and when the acoustic waves reach the second location, with detected frequencies at a predetermined spatial location.

19. – 26. (Canceled)